AFSS Voice Switch Demonstration Script

DIRECTIONS: follow each step as presented in the script. If you are unable to perform a step, please ask the test supervisor for direction.

- Touch the ☎ button when indicated in the script. This simulates an incoming transmission or call.

- Touch the 🗨 button when directed to in the script. It simulates you speaking on an outgoing line or air/ground frequency.

1. Logon to the system.
   - ❑ Touch anywhere on the touch entry display (TED) to display the logon screen.
   - ❑ Touch the USERNAME entry field.
   - ❑ Enter the user name: *NAATS* (using the keyboard on the TED).
   - ❑ Touch the PASSWORD entry field.
   - ❑ Enter the password: *NAATS* (using the keyboard on the TED).
   - ❑ Touch the **ENTER** button. *LOGON SUCCESSFUL* will appear briefly beneath the TED. The screen will change to the default screen (ACTIVE) and 9 frequencies will be displayed (8 active and one custom broadcast frequency). Note that *ACTIVE* appears in yellow in the current section indicator in the upper right-hand corner of the screen.

2. Select a frequency for transmission.
   - ❑ Touch the **TX** button next to MGW 122.45 (the first active frequency). The transmit button label will change to **TX ON** and the button will change to a green circle, indicating that the frequency is selected for transmission.

3. Simulate keying the microphone for an outgoing transmission.
   - ❑ Touch the 🗨 button on the right side of the TED. The **TX ON** circle and the **ACTIVE** navigation button will flash indicating that you are making a transmission on that frequency.

4. Simulate an incoming call to the loudspeaker.
   - ❑ Touch the ☎ button on the right side of the TED. The MGW 122.45 loudspeaker icon will flash, indicating that an incoming call is being received on that frequency and the audio is routed to the loudspeaker. The **ACTIVE** navigation button will flash yellow and **RX** will flash on the button.

5. Route audio for a frequency to the headset.
   - ❑ Touch the loudspeaker icon button (output button) associated with ACY 122.2 (the second active frequency). The icon will change from a loudspeaker to a headset.

6. Simulate an incoming call to the headset.
   - ❑ Touch the ☎ button. The ACY 122.2 headset icon will flash, indicating there is an incoming call on this frequency and that the audio is routed to the headset. The **ACTIVE** navigation button will flash yellow and **RX** will flash on the button.

7. Mute audio for a frequency.

   ❑ Touch the loudspeaker icon for TEB 122.2 (the third frequency). The icon will change from a loudspeaker to a headset.

   ❑ Touch the headset icon for TEB 122.2. The icon will change from a headset to a circle with a slash ("no sound" icon) indicating that the frequency is muted.

8. Simulate an incoming call on a muted frequency.

   ❑ Touch the ☽ button. The no sound icon will flash, indicating that a transmission is being received on TEB 122.2 but no audio can be heard. The **ACTIVE** navigation button will flash yellow and **RX** will flash on the button.

9. Change the main transmitter for a frequency to standby.

   ❑ Touch the **TX MAIN** button associated with PHL122.2 (the fourth freque ncy). The button will change to yellow and the label will change to **TX STBY**, indicating that transmissions on this frequency will be broadcast using the standby transmitter.

10. Change the main receiver for a frequency to standby.

    ❑ Touch the **RX MAIN** button associated with ISP 122.2 (the fifth frequency). The button will change to yellow and the label will change to **RX STBY**, indicating that incoming calls on this frequency will be heard using the standby receiver.

11. Attend to one frequency and mute all other incoming frequencies.

    ❑ Touch the **MAO** button associated with EKN 123.6 (the sixth frequency). The **MAO** button for EKN 123.6 and the **ACTIVE** button in the lower left corner of the screen will flash red, indicating that only incoming calls on this frequency will be heard.

12. Remove a frequency from the **ACTIVE** screen.

    ❑ Touch the frequency label button for TEB 122.2 (the third frequency). The frequency will be removed and the remaining frequencies will move up the list.

13. Review the last ten incoming radio frequencies.

    ❑ Touch the **HISTORY** button on the right side of the TED. A list of the ten most recent incoming radio frequencies will appear beneath the button. The most recent incoming frequency appears at the top of the list.

    ❑ Touch the **HISTORY** button a second time and the list will disappear.

14. Route all incoming frequencies to the loudspeaker.

    ❑ Touch the **LS ALL** button on the right side of the screen. The **LS ALL** button will flash, indicating that the selected output mode (e.g., headset) will be overridden for all frequencies and all incoming transmissions will be routed to the loudspeaker. The button will stop flashing after several flashes, however in the operational system the incoming transmissions would continue to be forwarded to the loudspeaker until the user deactivated the function by touching the **LS ALL** button again.

15. Select all the remaining active frequencies for transmission.

    ❑ Touch the **TX ALL** button on the right side of the ACTIVE screen.

    ❑ Touch the **TX ALL** button a second time. The transmit buttons for all active frequencies will change to a green circle and **TX ON** will appear indicating that they are selected for transmission.

16. Simulate keying the microphone for an outgoing transmission over all of the displayed frequencies.

   ❑ Touch the ⬤ button. All circles and the **ACTIVE** navigation button will flash, indicating that you are making a transmission on all of the displayed frequencies.

17. Remove the remaining frequencies from the **ACTIVE** screen.

   ❑ Touch the **CLEAR ALL** button on the right side of the ACTIVE screen. The **CLEAR ALL** button will highlight.

   ❑ Touch the **CLEAR ALL** button a second time. All remaining frequencies will be removed, leaving a blank ACTIVE screen.

18. Simulate receiving a radio transmission from a frequency not currently displayed on the ACTIVE screen.

   ❑ Touch the ☽ button. EKN 123.6 will appear on the ACTIVE screen and the loudspeaker and ACTIVE buttons will flash. This simulates an incoming radio transmission from a radio frequency (EKN 123.6) within one of the monitored sectors. In the operational system, any frequency within a monitored sector that is not currently displayed will automatically be added to the ACTIVE screen.

   ❑ Touch the frequency label button for EKN 123.6. The frequency will be removed.

19. Configure the headset as the default for two frequencies using the ALL FREQUENCIES screen.

   ❑ Touch the **ALL FREQS** button on the bottom row of the TED to go to the ALL FREQUENCIES screen. This screen permits you to configure default settings for any frequency. This screen shows all frequencies categorized by sector, along with the associated settings (e.g., **TX MAIN**, **MAO**). The tabs at the bottom indicate the sector. You are looking at the frequencies for the NORTH 1 sector.

   ❑ Touch the **VORS 2** tab,

   ❑ Touch the loudspeaker icon for JFK 115.9. The icon will change to a headset.

   ❑ Touch the loudspeaker icon for DCA 111.0. The icon will change to a headset.

20. Select transmit as the default for two frequencies.

   ❑ Touch the **TX** button associated with BOS 112.7. The button will change to a green circle and the label will change to **TX ON**. The default for this frequency is to transmit whenever the microphone is keyed.

   ❑ Touch the **TX** button associated with SEA 116.8. The button will change to a green circle and the label will change to **TX ON**. The default for this frequency is to transmit whenever the microphone is keyed.

21. Select the standby transmitter as the default for a frequency.

   ❑ Touch the **TX MAIN** button associated with GRB 115.5. The button label will change to **TX STBY**. All outgoing calls on this frequency will use the standby transmitter as the default setting.

22. Select the standby receiver as the default for a frequency.

   ❑ Touch the **RX MAIN** button associated with ANC 114.3. The button label will change to **RX STBY**. All incoming calls on this frequency will use the standby receiver as the default setting.

23. Navigating the ALL FREQUENCIES screen using the right-pointing arrow button.
   - ❑ Touch the right-pointing arrow button on the right side of the TED to move to **ACY 3** (page 3) of the **ALL FREQS** screen. The **ACY 3** page tab below the frequencies is highlighted, indicating this page is currently being displayed.
   - ❑ Touch the right-pointing button 2 more times to reach **PHL 5**. The **PHL 5** page tab below the frequencies is highlighted, indicating this page is currently being displayed.

24. Navigate the ALL FREQUENCIES screen using the left-pointing arrow button.
   - ❑ Touch the left-pointing arrow button on the right side of the TED. The **TEB 4** tab of the **ALL FREQS** screen is highlighted, indicating that the TEB frequencies are currently being displayed.
   - ❑ Touch the left-pointing arrow 2 more times to reach the **VORS 2** tab. The **VORS 2** tab below the frequencies is highlighted, indicating this page is currently being displayed.

25. Navigate the ALL FREQUENCIES screen using the page tab button.
   - ❑ Touch the **TEB 4** tab button below the frequencies of the **ALL FREQS** screen. The **TEB 4** tab is highlighted indicating that the TEB frequencies are currently being displayed.

26. Select the SUMMARY screen.
   - ❑ Touch the **SUMM** button on the bottom function row of the TED. The SUMMARY screen will appear. It presents several boxes and tabs for multiple pages. Each box contains the name of a radio site and the associated frequency. The SUMMARY screen includes a box for every frequency.

27. Navigate the SUMMARY screen using the right-pointing arrow button.
   - ❑ Touch the right-pointing arrow button on the right side of the TED to move to **PAGE 2** of the SUMMARY screen. The **PAGE 2** tab below the frequencies is highlighted, indicating this page is currently being displayed.
   - ❑ Touch the right-pointing button 2 more times to reach **PAGE 4**. The frequency boxes on page 4 are displayed, as indicated by the highlighted page 4 tab.

28. Navigate the SUMMARY screen using the left-pointing arrow button.
   - ❑ Touch the left-pointing arrow button on the right side of the TED 3 times to move to **PAGE 1** of the SUMMARY screen. The **PAGE 1** tab below the frequencies is highlighted, indicating this page is currently being displayed.

29. Navigate the SUMMARY screen using the page tab button.
   - ❑ Touch the **PAGE 4** tab button below the frequencies of the SUMMARY screen. The **PAGE 4** tab is highlighted indicating that the frequency boxes on page 4 are currently being displayed.
   - ❑ Touch the **PAGE 1** tab button below the frequencies of the SUMMARY screen. The **PAGE 1** tab is highlighted indicating that the frequency boxes on page 1 are currently being displayed.

30. Make a transmission by selecting a frequency from the SUMMARY screen.
   - ❑ Touch the **SUMM** button on the bottom function row of the TED.
   - ❑ Touch the frequency box associated with MGW 122.45. The frequency box and its associated controls (TX Select Button, Output Button, Transmitter Select Button, Receiver Select Button) will appear in the space below the frequency boxes.

❑ Touch the **TX** button associated with MGW 122.45. The button will change to a green circle and the label will change to **TX ON** indicating that the frequency is ready to transmit.

❑ Touch the 🗩 button. This simulates keying the microphone for an outgoing transmission. The circle will flash, indicating that you are making a transmission on that frequency.

31. Select the EMERGENCY FREQUENCIES screen.

❑ Touch the **EMERG** button on the bottom function row of the TED. A screen will appear that displays a page of the available emergency frequencies and their associated function buttons.

32. Make a transmission by selecting a frequency from the EMERGENCY FREQUENCIES screen.

❑ Touch the **TX** button associated with ISP 121.5. The button will change to a green circle and the label will change to **TX ON** indicating that the frequency is ready to transmit.

❑ Touch the 🗩 button. This simulates keying the microphone for an outgoing transmission. The circle will flash, indicating that you are making a transmission on that frequency.

❑ Touch the **TX ON** button associated with ISP 121.5. The button will change to a blue square and the label will change to **TX** indicating that the frequency is not selected for transmit.

33. Make a transmission on all emergency frequencies.

❑ Touch the **TX** button associated with the ALL EMERG frequency. The **TX** buttons associated with all emergency frequencies will change to a green circle and the labels will change to **TX ON** indicating that all of the displayed frequencies are selected for transmission.

❑ Touch the 🗩 button to simulate keying the microphone for an outgoing transmission on all emergency frequencies.

34. Deselect all emergency frequencies from transmission.

❑ Touch the **ALL EMERG** button on the bottom function row of the TED. The emergency frequency **TX** buttons will change to a blue square and the labels will change to **TX**, indicating that none of the displayed frequencies are selected for transmission.

35. Recall the most recently removed frequencies from the ACTIVE screen.

❑ Touch the **RECALL** button on the bottom function row of the TED. A screen of frequencies will appear with their associated function buttons, a row of page tabs below the frequencies, and a set of arrow buttons to the right of the frequencies. RECALL appears in the box in the upper right-hand corner of the screen, indicating that the RECALL screen is the currently displayed screen. The RECALL screen presents a chronological list of all recently active frequencies that have been removed from the ACTIVE screen. ACY 122.2 is listed first, indicating that it was most recently removed frequency from the ACTIVE screen.

36. Make a transmission from a frequency recently removed from the ACTIVE screen.

❑ Touch the **RECALL** button.

❑ Touch the **TX** button associated with ACY 122.2. The button will change to a green circle and the label will change to **TX ON**, indicating that the frequency has been selected for transmission.

❑ Touch the ⬤ button. This simulates keying the microphone for an outgoing transmission. The circle will flash, indicating that you are making a transmission on that frequency.

❑ Touch the **ACTIVE** button. Note that ACY 122.2 is added to the list. Whenever make a transmission, that frequency is automatically added to the active frequency list.

37. Manually add a frequency to the ACTIVE screen without making a transmission.

❑ Touch the **RECALL** button.

❑ Touch the **TEB 122.2** main frequency button (i.e., the button labeled **TEB 122.2**). The frequency is added to the active frequencies list.

❑ Touch the **ACTIVE** button. Note that TEB 122.2 is added to the list.

38. Acknowledge a pending reconfiguration to your position.

❑ Touch the (☏) button on the right side of the TED. The **RECON ACK** button flashes indicating that a workstation reconfiguration is pending. Whenever a system-level reconfiguration is initiated, the **RECON ACK** button will flash at all affected workstations until the changes are acknowledged and accepted. In the operational system, this would be followed by a list of changes and an accept/do not accept prompt.

39. Navigate the DA/IA screen.

❑ Touch the **DA/IA** button on the bottom function row of the TED. A screen will appear that displays direct access and indirect access functions, and a row of page tabs. DA/IA appears in the upper right-hand corner of the TED, indicating that the DIRECT ACCESS-INDIRECT ACCESS screen is the currently displayed screen. The tabs provided in the prototype include **GP**, **ARTCC/APCH**, and **AFSS**.

❑ Touch the right-pointing arrow button on the right side of the TED to move to the **ARTCC/APCH** tab. The **ARTCC/APCH** tab is highlighted. The ARTCC and approach land lines are displayed in addition to the direct access and indirect access functions. The navigation arrows operate in the same manner as they did for the summary screen.

❑ Touch the right-pointing arrow button one more time to move to the **AFSS** tab. The **AFSS** tab is highlighted.   The AFSS land lines are displayed in addition to the direct access and indirect access functions.

❑ Touch the left-pointing arrow button on the right side of the TED to move to the **ARTCC/APCH** tab. The **ARTCC/APCH** tab is highlighted. The ARTCC and approach land lines are displayed in addition to the direct access and indirect access functions.

❑ Touch the **AFSS** tab button. The **AFSS** tab is highlighted and the corresponding lines are displayed.

40. Place a direct access call.
   ❑ Touch the **DA/IA** button on the bottom function row of the TED. DA/IA appears in the upper right-hand corner of the TED.
   ❑ Touch the **AFSS** tab.
   ❑ Touch the **MIL** button in the upper left corner of the TED. "OPEN" will appear on the DA/IA and MIL buttons and they will change to green, simulating placing a direct access call.
   ❑ Touch the ⬤ button to simulate making an outgoing transmission on the MIL line. The DA/IA and MIL buttons will flash, indicating that you are making a transmission on that frequency.
   ❑ Touch the **MIL** button to deselect the line. "OPEN" will be removed from the DA/IA and MIL buttons and they will return to their blue (default) state.

41. Receive a direct access call and place the call on hold.
   ❑ Touch the **DA/IA** button.
   ❑ Touch the **GP** tab.
   ❑ Touch the ◗ button on the right side of the TED to simulate an incoming call on GP 6157. The **GP 6157** and **DA/IA** buttons flash rapidly and **RING** appears on the buttons, indicating an incoming call on GP 6157. In the operational system, the button would continue to flash until you answered the incoming call.
   ❑ Touch the **GP 6157** button to simulate answering GP 6157. "OPEN" will appear on the GP 6157 and DA/IA buttons and the buttons will change to green.
   ❑ Touch the ⬤ button. The **GP 6157** and **DA/IA** buttons will flash indicating you are speaking on that line. In the operational system, the line would remain open until you terminated the call or placed the line on hold.
   ❑ Touch the **HOLD** button to simulate placing GP 6157 on hold. The **GP 6157** and **DA/IA** buttons flash slowly indicating that GP 6157 is on hold. In the operational system, the button would continue to flash until you selected the line again.

42. Place an indirect access call.
   ❑ Touch the **DA/IA** button on the bottom function row of the TED. DA/IA appears in the upper right-hand corner of the TED, indicating that the DIRECT ACCESS-INDIRECT ACCESS screen is the currently displayed screen.
   ❑ Touch the **IA** button to the left of the TED numeric keypad. The **IA** button will flash, indicating that the indirect access circuit has been selected for use at the position.
   ❑ Touch **2** and **3** button on the numeric keypad to enter the two-digit code for the facility.
   ❑ In the operational system, the line would remain open until you closed it by pressing the **IA** or **REL** button.

43. Go to the AUTOMATIC CALL DIRECTOR screen.
   ❑ Touch the **ACD** button located on the bottom function row of the TED. ACD will appear in the upper right-hand corner of the TED, indicating that the AUTOMATIC CALL DIRECTOR screen is the currently displayed screen. This screen, which resembles the existing FSS ACD equipment, provides automated call director buttons, a telephone keypad, and information readout.

❑ Review the available features.

44. Access additional function buttons on the bottom function row of the TED.
    ❑ Touch the **MORE MENU** button in lower right-hand corner of the TED. The 4 function buttons to the left of the **MORE MENU** button will change. One set contains the **CNTRL**, **SECTOR**, **REC RELIEF**, and **LOG OFF** buttons.   The other set includes the **CUST BCST**, **DISBLD FREQS**, **SEARCH**, and **LOG OFF**. Note that the **LOG OFF** and **MORE MENU** buttons are available from both menus.
    ❑ Touch the **MORE MENU** button several times and observe the function buttons toggle.

45. Broadcast a test count for a disabled frequency.
    ❑ Touch the **DISBLD FREQS** button on the bottom function row of the TED. A screen of frequencies will appear that has all of the frequency functions, a row of tabs below the frequencies and a set of arrows to the right of the frequencies. Note that all of the frequencies are showing a mute icon. These frequencies will not appear on the ACTIVE screen because the supervisor has disabled them. This list of frequencies can be used during the position relief briefing.
    ❑ Touch the **TX** button associated with ACY 122.2. The button will change to a green circle and the label will change to **TX ON**, indicating that the frequency has been selected for transmission.
    ❑ Touch the ⬤ button. The circle associated with ACY 123.45 will flash, simulating keying the mike to make a transmission on that frequency.

46. Simulate recording a position relief briefing.
    ❑ Touch the **MORE MENU** button located on the bottom function row of the TED
    ❑ Touch the **REC RELIEF** button on the bottom function row of the TED. The button will flash yellow, indicating that the position is being recorded without accessing an outside line or radio frequency. In the operational system, the system would continue recording until you touched the button again to deactivate the function.

47. Change the sectors that your position is operating.
    ❑ Touch the **SECTOR** button on the bottom function row of the TED. A screen will appear that lists the preconfigured sector options for the facility. The current sector indicator (i.e., the box in the upper right-hand corner of the TED beneath the current sector indicator) shows that you are currently operating IF1, IF2, IF3, and Flight Watch.
    ❑ Touch the **IF3** and **FW** buttons on the left of the TED to deselect those sectors. IF3 and FW will be removed from the current sector box, leaving IF1 and IF2 as the sectors being monitored.

48. Simulate transmitting a custom broadcast.
    ❑ Touch the **MORE MENU** button located on the bottom function row of the TED
    ❑ Touch the **CUST BCST** button on the bottom function row of the TED. CUST BCST will appear in the current section indicator and a screen will appear that displays the custom lists of radios available for transmission.
    ❑ Touch the **TX** button associated with **HIWAS 2**. The transmit button label will change to **TX ON** and the button will change to a green circle, indicating that all frequencies in the HIWAS 2 list are selected for transmission.

❑ Touch the 🗩 button. This simulates keying the microphone for an outgoing transmission on all HIWAS 2 frequencies. The **TX ON** button will flash, indicating that you are making a transmission on those frequencies. In the operational system, keying the mike would send out a transmission to all the frequencies listed.

49. Simulate creating a custom broadcast list.

❑ Touch the **CUST BCST** button on the bottom function row of the TED.

❑ Touch the **SAVE CURRENT** button. All frequencies contained on the active screen will be inserted into the associated frequency list. The button label will change to **CUSTOM 1** indicating that a new set of custom broadcast frequencies (called Custom 1) has been created. This new custom broadcast frequency acts like any other custom broadcast frequency.

50. Conduct a search for a text string.

❑ Touch the **SEARCH** button on the bottom function row of the TED. A search screen with an alphanumeric keyboard will appear.

❑ Enter *KSEA* in the search box using the keyboard displayed on the TED.

❑ Touch the **ENTER** button. A list of frequencies that begin with the letters KSEA will appear in the space below the keyboard.

❑ Touch the frequency box associated with **KSEARC**. The frequency box and its associated controls (TX Select Button, Output Button, Transmitter Select Button, Receiver Select Button) will appear in the space below the frequency boxes.

51. Conduct a search for a frequency.

❑ Touch the **CLEAR** button on the top row of the TED keyboard. This is used when multiple searches are conducted to remove any entries contained in the search box.

❑ Enter *123* in the search box using the TED keyboard.

❑ Touch the **ENTER** button. A list of frequencies that begin with the numbers 123 will appear in the space below the keyboard.

❑ Touch the frequency box associated with **KSEARC1234.50**. The frequency box and its associated controls (TX Select Button, Output Button, Transmitter Select Button, Receiver Select Button) will appear in the space below the frequency boxes.

52. Adjust the brightness and contrast of the display.

❑ Touch the **CNTRL** button on the bottom function row of the TED. A screen will appear that has brightness, contrast, and clean functions.

❑ Touch the **BRIGHT –** and **BRIGHT +** buttons to adjust the brightness of the TED.

❑ Touch the **CONTRAST –** and **CONTRAST +** buttons to adjust the contrast of the TED.

53. Clean the TED screen.

❑ Touch the **CNTRL** button on the bottom function row of the TED. A screen will appear that has brightness, contrast, and clean functions.

❑ Touch the **CLEAN** button on the CONTROL screen. The button will flash, indicating that the TED touch input (except in the **CLEAN** button location) is disabled. The button will stop flashing, indicating that the TED touch functionality is reactivated. In the operational system you would be required to touch the **CLEAN** button once more to deactivate the clean function.

54. Log off of the system.
   ❑ Touch the **LOG OFF** button on the bottom function row of the TED (if the **LOG OFF** function button is not displayed touch the **MORE MENU** button). The system will prompt you with "Are you sure you want to Log Off?" and present 3 options: Yes, No, and Log On As New.
   ❑ Touch the **YES** button. The TED will display a black screen (screen saver).

This Concludes the Demonstration Script